GOVERNMENT POLYTECHNIC SHEIKHPURA

DEPARTMENT OF CIVIL ENGINEERING

DEPARTMENTAL MAGAZINE

PRAVAH

VOLUME – I | 2022 Edition



"Building Knowledge, Shaping the Future"

EDITORIAL BOARD

Role	Name / Details
Editor-in-Chief	[DATA REQUIRED / INSERT NAME]
Faculty Coordinator	[DATA REQUIRED / INSERT NAME]
Student Editors	[DATA REQUIRED / INSERT NAMES]
Design & Photography	[INSERT NAMES]
Contributors	Civil Engineering students / faculty – as applicable

Note: Names should be inserted only after verification for the respective session.

CONTENTS

1. Principal's Message
2. HOD's Message
3. Editorial
4. Department at a Glance
5. Vision & Mission
6. Academic & Technical Highlights
7. Workshops / STCs / Events
8. Industrial / Field Exposure
9. Laboratories & Infrastructure
10. Student Projects & Innovation
11. Student Achievements
12. Technical Corner
13. Photo Gallery
14. Year in Review
15. Acknowledgement

1. PRINCIPAL'S MESSAGE



PRINCIPAL

Dear Students,

It gives me immense pleasure to extend my warm greetings to the students, faculty members and readers of the Department of Civil Engineering through PRAVAH-2022.

The Department of Civil Engineering is committed to providing quality technical education by combining fundamental engineering knowledge with practical exposure and modern engineering practices. Civil engineering plays a vital role in the development of safe, sustainable and resilient infrastructure, and our objective is to prepare students to contribute responsibly to this profession.

I encourage our students to make full use of the laboratories, practical sessions, field exposure, technical activities and learning opportunities available at the institute. Participation in seminars, workshops, industrial visits, co-curricular activities and student initiatives helps develop not only technical competence but also teamwork, communication, discipline and professional ethics.

I am pleased to see the efforts of the faculty members and students in building an academic environment that encourages curiosity, creativity and continuous learning. The departmental magazine PRAVAH provides an opportunity to showcase these efforts, achievements and experiences.

I congratulate the Department of Civil Engineering and the editorial team for bringing out this edition. I wish all students success in their academic journey and encourage them to remain curious, ethical, technically competent and committed to serving society through engineering.

With best wishes,



Principal
Government Polytechnic Sheikhpura

2. HEAD OF DEPARTMENT'S MESSAGE



HEAD OF DEPARTMENT

It gives me immense pleasure to present the Civil Engineering Department Magazine, which reflects the academic activities, practical learning and creative contributions of our students and faculty members.

Civil Engineering plays a vital role in building safe, sustainable and resilient infrastructure. Our endeavour is to develop competent and responsible diploma engineers with strong fundamentals, practical skills and professional ethics.

Meaningful engineering education extends beyond the classroom. Laboratory work, field exposure, project-based learning and modern engineering tools help students connect theory with practice. This approach is aligned with Outcome-Based Education.

We also encourage our students to develop awareness of sustainability, safety and responsible use of resources.

I appreciate the efforts of the faculty members and students who have contributed to this publication.

I hope this magazine inspires our students to keep learning and contribute meaningfully to society. My best wishes to all for continued learning, professional growth and excellence.



Head of Department
Department of Civil Engineering
Government Polytechnic Sheikhpura

3. EDITORIAL

The first volume presents the verified Civil Engineering departmental identity and the available PRAVAH-2022 record. Session-specific items not available in the source documents are intentionally marked for later insertion.

4. DEPARTMENT AT A GLANCE

Item	Verified Information
Programme	Diploma in Civil Engineering
Institution	Government Polytechnic Sheikhpura
Department	Department of Civil Engineering
Department inception	2016 (as stated in the available PRAVAH-2022 material)
Edition / Session	2022 Edition



5. VISION & MISSION

Vision of the Civil Engineering Department:

"To produce competent, ethical and industry-ready diploma civil engineers with strong technical skills, innovation and a commitment to sustainable development for the benefit of society."

Mission:

M1: To impart strong fundamental and practical knowledge in civil Engineering through quality teaching, well-equipped laboratories and effective field exposure.

M2: To develop technical skills, problem-solving abilities and hands-on competence aligned with current industry requirements.

M3: To foster professional ethics, teamwork, communication skills and responsibility toward safety, sustainability and the environment.

Programme Educational Objectives (PEOs)

PEO 1 – Technical Skills: To apply fundamental civil engineering knowledge and practical skills to support planning, execution and maintenance of civil engineering works.

PEO 2 – Employment Skills: To apply civil engineering knowledge for planning, design and analysis of engineering projects contributing to infrastructure development.

PEO 3 – Ethics & Safety: To practice civil engineering with professional integrity, effective communication and teamwork, while demonstrating responsibility toward safety, environmental care and continuous self-development.

Programme Specific Outcomes (PSOs)

PSO 1 – Application Skills: Diploma Students will be able to analyze, design and execute basic civil engineering works such as buildings, roads and other infrastructure by applying fundamental civil engineering principles and practical skills.

PSO 2 – Problem-Solving & Field Skills: Diploma Students will be able to adopt sustainable construction practices and manage resources efficiently, ensuring environmentally responsible and cost-effective civil engineering solutions.

6. ACADEMIC & TECHNICAL HIGHLIGHTS

- Departmental Magazine: PRAVAH-2022 (प्रवाह-2022) is documented in the Part-B SAR as the Civil Engineering departmental magazine.
- PRAVAH-2022 is described as an annual publication recording the department's academic journey, departmental events, student-authored insights and emerging technological trends.
- Students of the Civil Engineering programme participate in sports activities, literary events and quiz competitions; the SAR records state-level prizes/recognition.
- Technical and practical learning through laboratories, field exposure and student activities is part of the department's documented profile.

[RELEVANT PHOTO / CERTIFICATE / EVENT IMAGE – INSERT PHOTO]

7. DEPARTMENTAL MAGAZINE – PRAVAH-2022

Magazine: PRAVAH-2022 (प्रवाह-2022)

Nature: Annual departmental publication

Purpose: Records departmental academic journey, events, student excellence and student-authored technical insights.

Relevance: Acts as a bridge between campus life and industry trends and promotes research skills and forward-thinking.

[RELEVANT PHOTO / CERTIFICATE / EVENT IMAGE – INSERT PHOTO]

8. WORKSHOPS / STCs / EVENTS

- **[DATA REQUIRED]** Session-specific Civil Engineering event list for 2022-23 was not separately verified in the current source set.
- Use this section for photographs, certificates and event reports once available.

[RELEVANT PHOTO / CERTIFICATE / EVENT IMAGE – INSERT PHOTO]

9. LABORATORIES & INFRASTRUCTURE

- Strength of Materials Lab
- Hydraulic Machinery Lab
- CAD/CAM Lab
- Survey Lab
- Concrete Technology Lab
- Geotechnical Lab
- Transportation Lab

[RELEVANT PHOTO / CERTIFICATE / EVENT IMAGE – INSERT PHOTO]

10. STUDENT PROJECTS & INNOVATION

- **[DATA REQUIRED]** Verified project titles, student teams, guides and outcomes for 2022-23.

[RELEVANT PHOTO / CERTIFICATE / EVENT IMAGE – INSERT PHOTO]

11. STUDENT ACHIEVEMENTS

- Participation in sports, literary activities and quiz competitions is documented in the SAR.
- State-level prizes/recognition of Civil Engineering students are documented, but session-wise award details should be inserted only after verification.

[RELEVANT PHOTO / CERTIFICATE / EVENT IMAGE – INSERT PHOTO]

12. TECHNICAL CORNER

- Suggested source-based themes: Sustainable Civil Engineering; Emerging Surveying Technologies; Construction Materials; Water Resources & Irrigation; Earthquake Safety.
- [PHOTO / ARTICLE TO BE INSERTED] Student/faculty technical articles.

[RELEVANT PHOTO / CERTIFICATE / EVENT IMAGE – INSERT PHOTO]

13. PHOTO GALLERY

- Insert PRAVAH-2022 cover and department photographs.
- Insert verified event/activity photographs for the session.

[RELEVANT PHOTO / CERTIFICATE / EVENT IMAGE – INSERT PHOTO]

14. YEAR IN REVIEW

Major verified activities recorded for this edition:

- Magazine: PRAVAH-2022 (प्रवाह-2022)

[Add remaining verified activities after checking department records.]

15. ACKNOWLEDGEMENT

The Department of Civil Engineering acknowledges the contribution of faculty members, students, resource persons and institutional support in the academic and technical activities documented in this edition. Names, photographs and supporting records should be inserted after verification.

[BACK COVER / DEPARTMENT COLLAGE – INSERT PHOTO]